



# Dell XPS 17 L702X Mother Board Replacement

Guide to replace the Motherboard of Dell XPS 17 L702X. The guide includes steps to remove the power cable plug, fan, WI-FI circuit board, heat sink, and the USB circuit board as a whole, since it is needed to remove the motherboard.

Written By: Eddie





## TOOLS:

- [Spudger](#) (1)
  - [Phillips #1 Screwdriver](#) (1)
  - [iFixit Opening Tools](#) (1)
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## Step 1 — Battery



- Flip over the laptop with the bottom battery compartment facing up.

## Step 2



- Slide the tab below the battery leftwards and hold.



## Step 3



- While holding the tab, lift the battery out of its compartment.
- Release the tab after removing the battery.

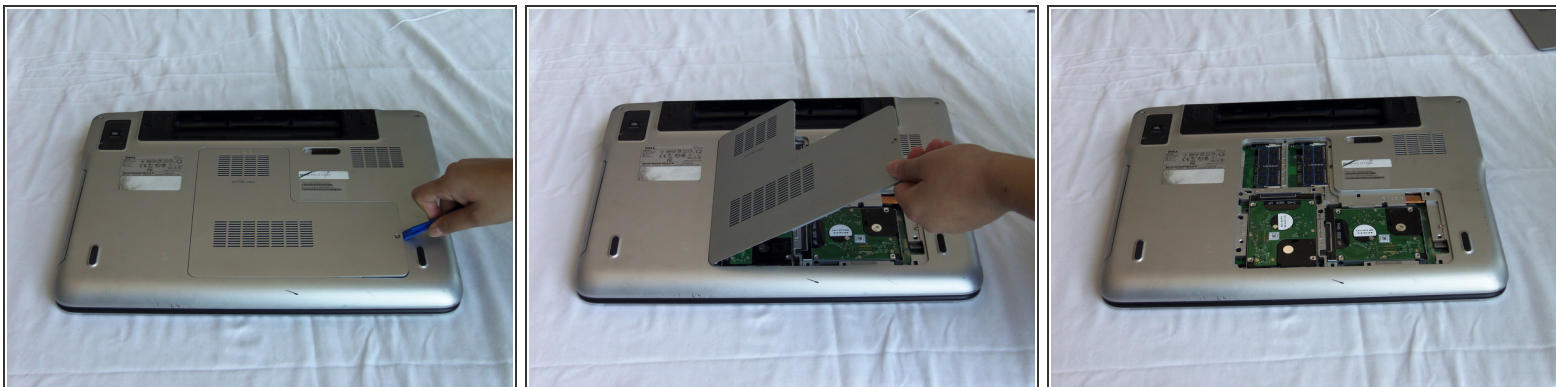
## Step 4 — Hard Drive



- Loosen the module cover screw with a Phillips screwdriver.
- ⚠ The screw is attached to the cover, do not force it out.

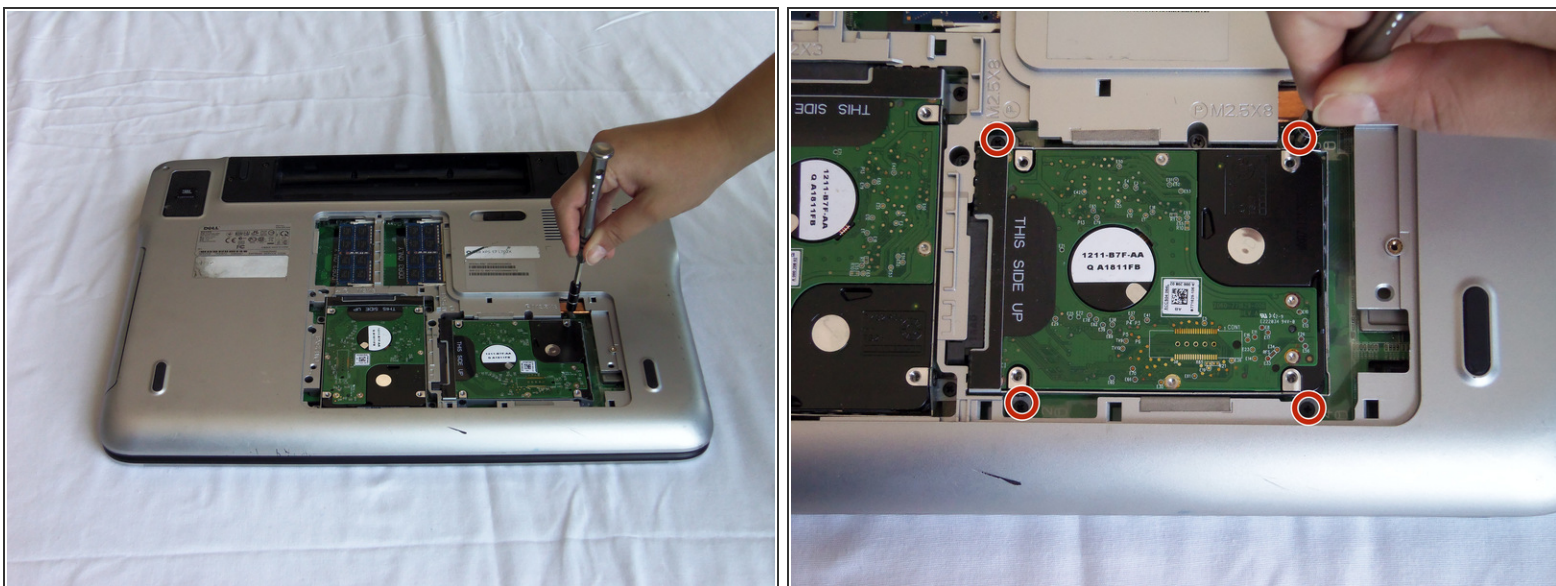


## Step 5



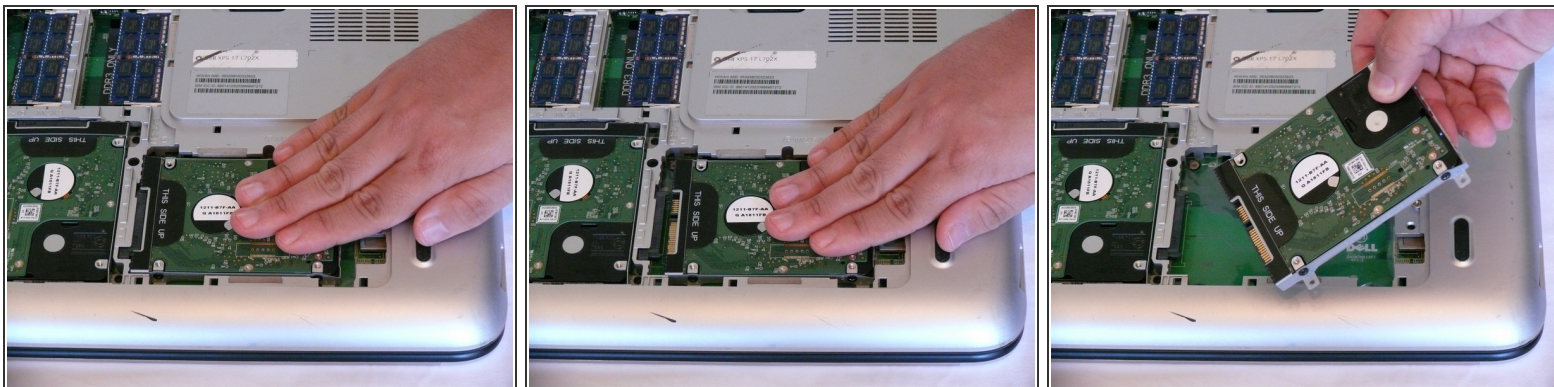
- Lift the module cover by inserting a plastic opening tool into the crevice near the screw and lift upwards.

## Step 6



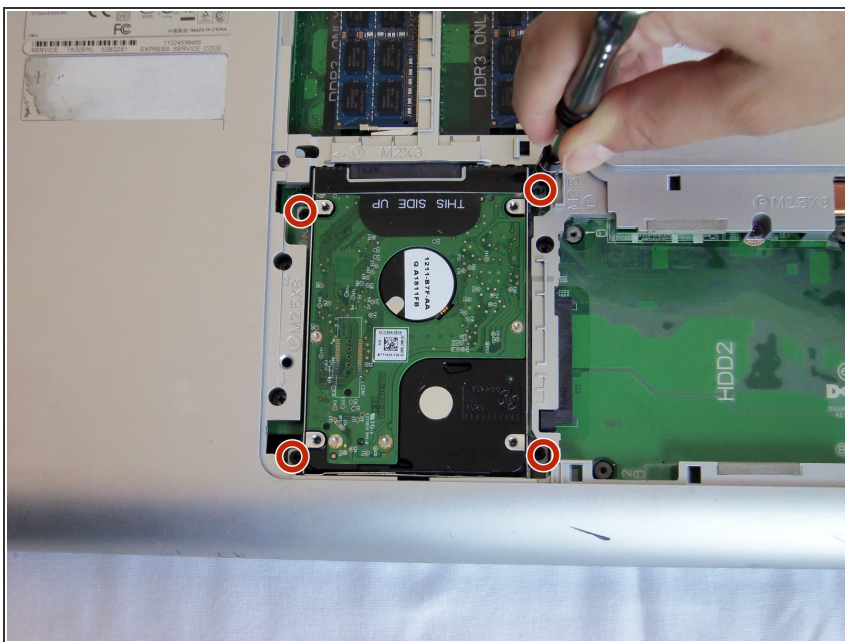
- Use a Phillips screwdriver and unscrew four 4mm Phillips screws fastening the first hard drive.

## Step 7



- Slide the hard drive towards the hole where the back panel assembly screw was located with your hands to disconnect and lift to remove it.

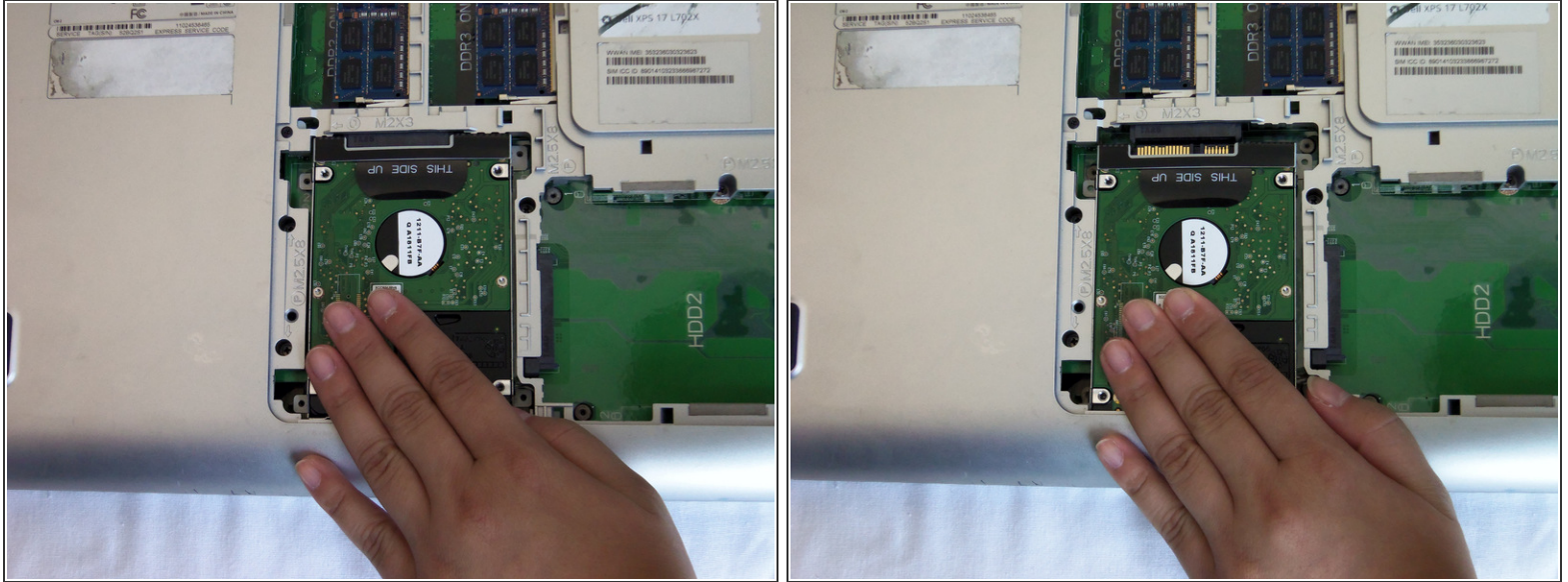
## Step 8



- Use a Phillips screwdriver to unscrew four 4mm Phillips screws on the second hard drive.

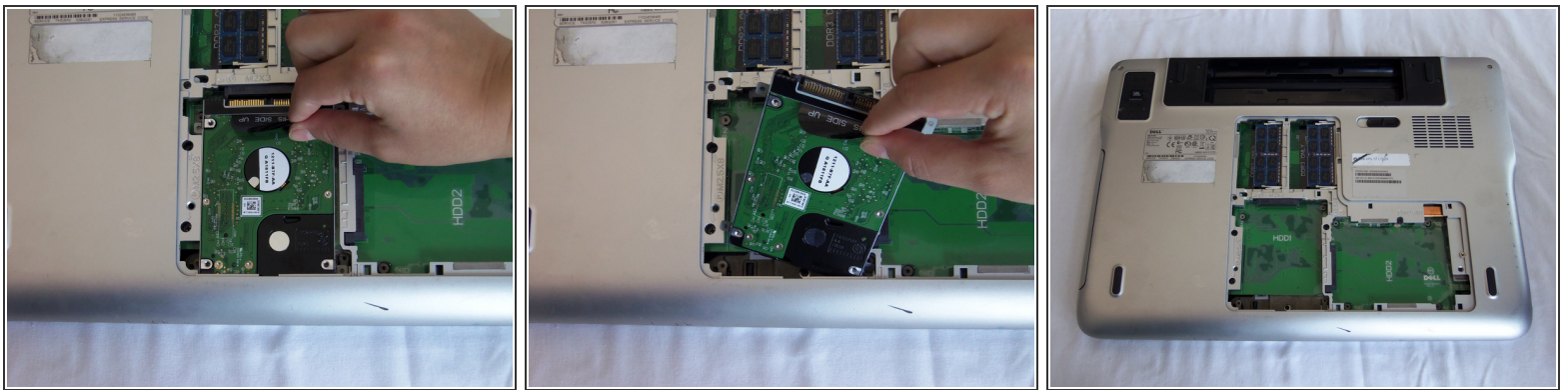


## Step 9



- Slide the hard drive towards the edge nearest you to disconnect it.

## Step 10



- Using the tab that says "this side up" pull away from the laptop to remove the hard drive.

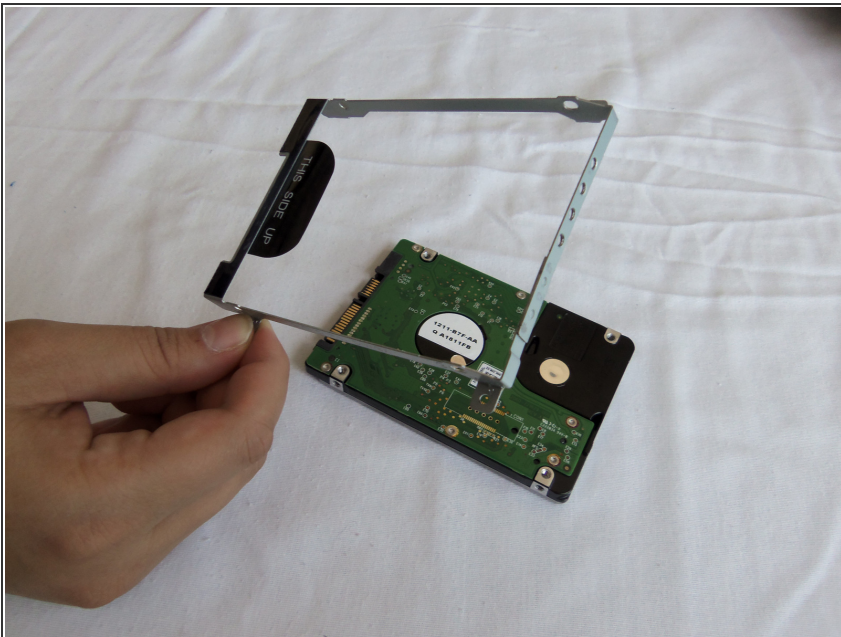
## Step 11



**i** Repeat this step for each hard drive.

- Unscrew two 4mm screws from each side of the hard drive casing with a Phillips screwdriver.

## Step 12



- Remove the hard drive casing.



## Step 13 — Palm Rest



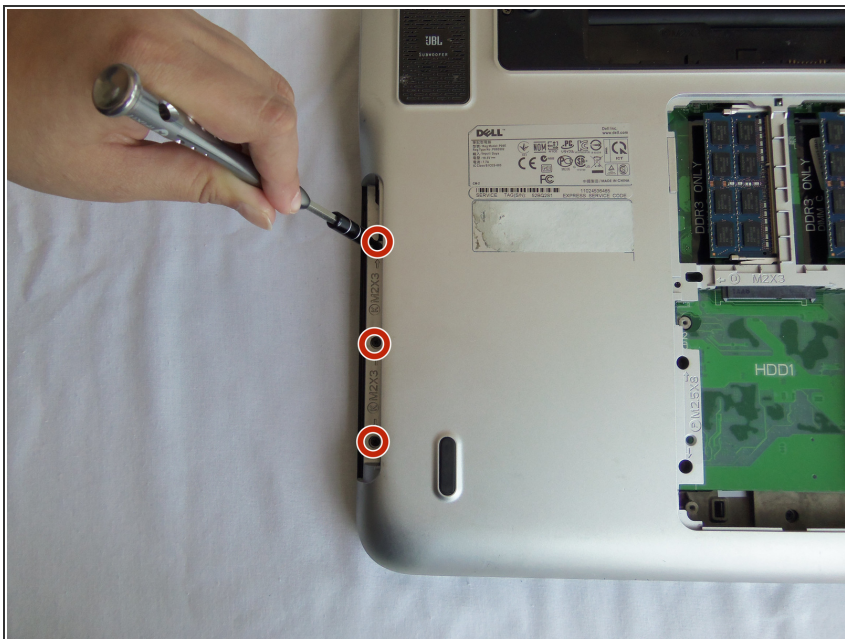
- Unscrew the screw holding the optical drive with a Phillips screwdriver.

## Step 14



- Using a plastic opening tool, pull out the optical drive.

## Step 15



- Unscrew three 4mm screws near the edge of the optical drive compartment with a Phillips screwdriver.

## Step 16



- Open the laptop to about a 90 degree angle and place it on its side with the empty optical drive slot pointing upwards.



## Step 17



- Push and hold the tab inside the optical drive's opening with your index finger.
- Insert a spudger between the black and silver plastic pieces that are above the tab and pry apart the two pieces.

## Step 18



- Slide the spudger around the palm rest to release the clips.
- ⓘ You may hear crackling noise, this is normal.
- ⚠ Use caution when sliding below the mouse pad, as there are wires we must detach in the next steps.

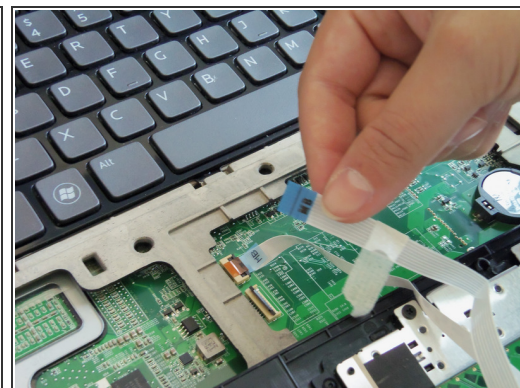
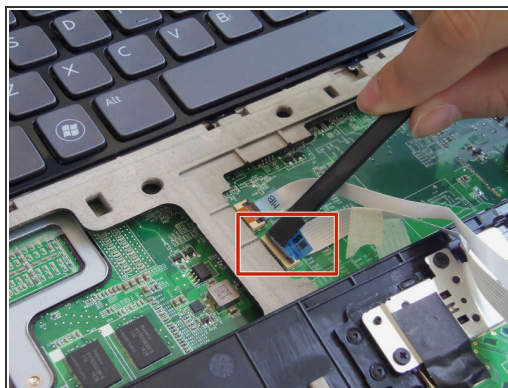
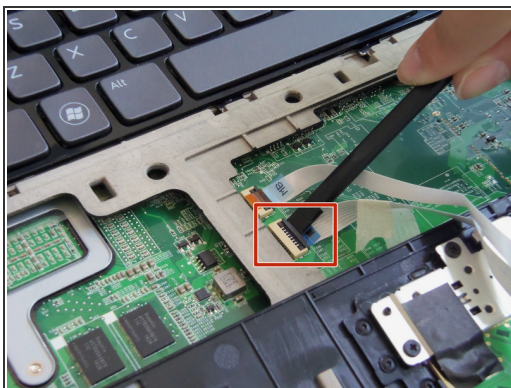
## Step 19



- Gently lift and rotate the palm rest panel until it's upside down as it is still connected by the mouse pad wires.

⚠ The mouse pad wires are still connected to the palm rest panel.

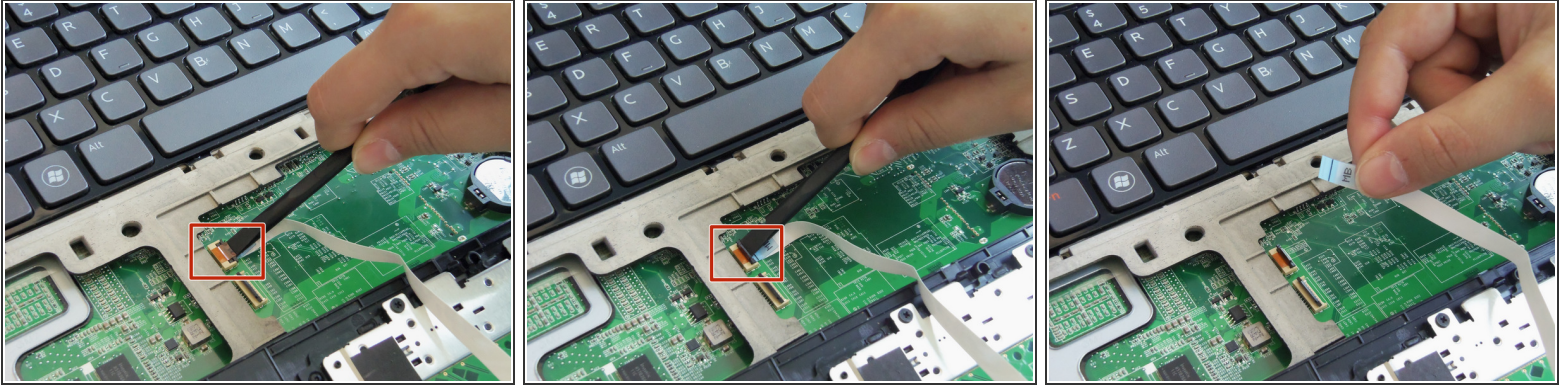
## Step 20



- Put the Spudger below the black tab of the wider cable and push up to release.
- Gently Pull out the cable.



## Step 21



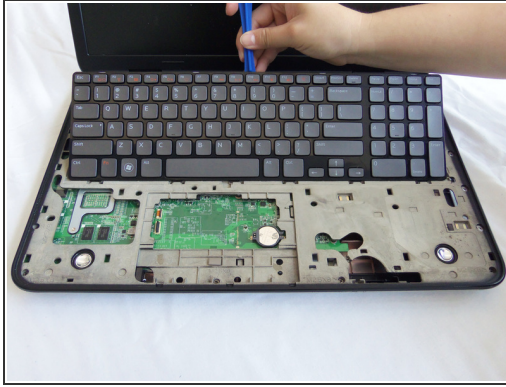
- Insert the spudger below the black tab of the remaining cable and push up to release.
- Gently pull out the cable.

## Step 22



- Remove the palm rest from the laptop.

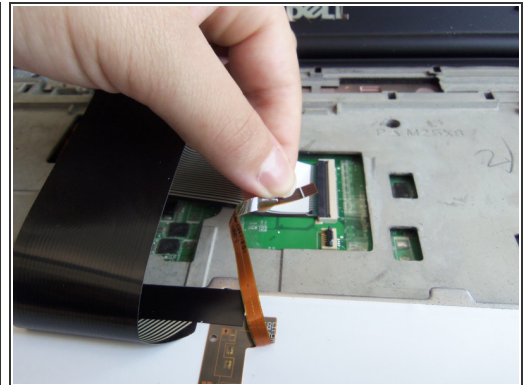
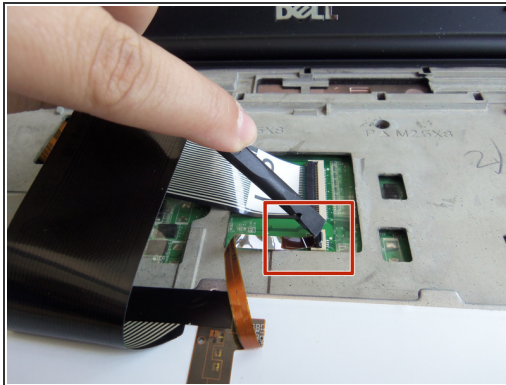
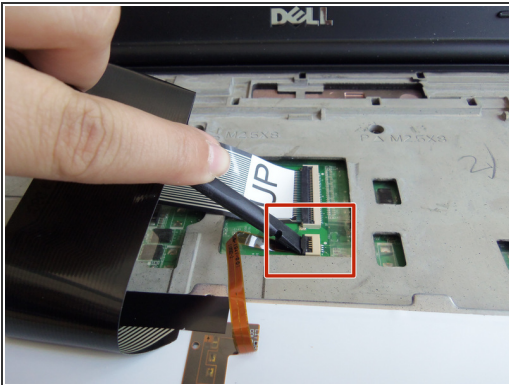
## Step 23 — Keyboard



- Using the plastic opening tool, slightly lift and rotate the keyboard until it's upside down from the display side of the laptop.

⚠ DO NOT lift the keyboard all the way as wires are still connected.

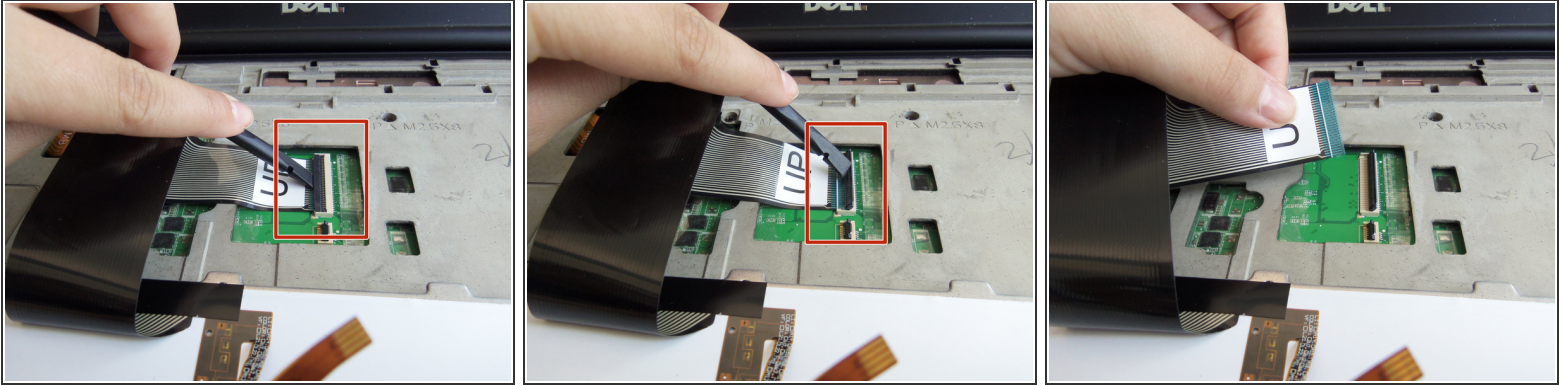
## Step 24



- Gently insert the spudger below the edge of the black tab of the thinner cable and lift.
- Gently pull out the cable.



## Step 25



- Gently insert the spudger under the edge of the black tab of the cable marked UP.
- Gently pull out the cable.

## Step 26



- Remove the keyboard from the laptop.

## Step 27 — Display



- Flip the laptop over so that the bottom faces upwards.
- Remove the two 16 mm screws with a Phillips screwdriver.

## Step 28



- Gently flip over the laptop and open the back cover assembly.



## Step 29



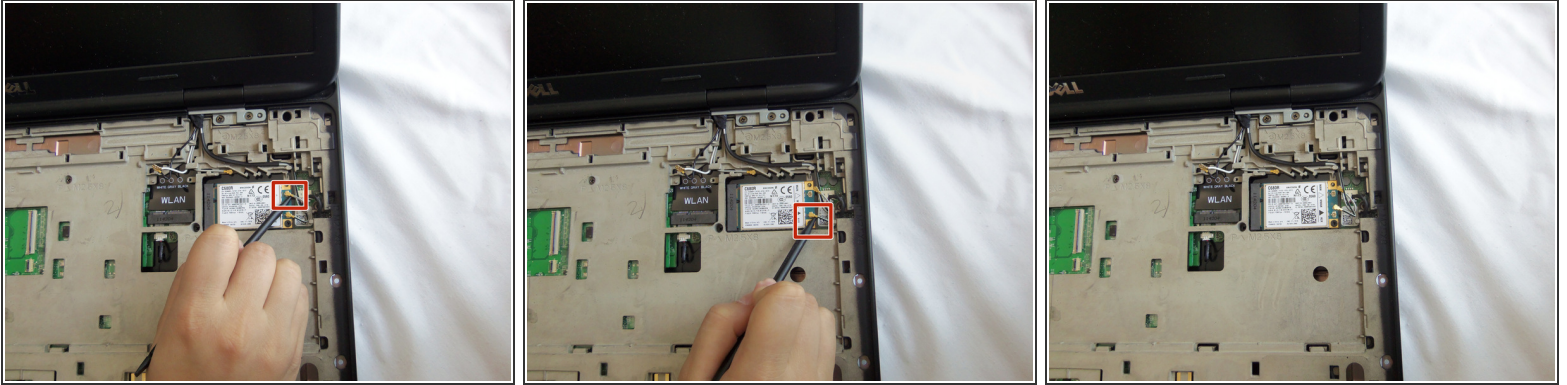
- Insert the pointy side of the spudger below the golden connector of the white cable on the WLAN card and lift to detach.

## Step 30



- Unscrew the 4mm screw from the WLAN card with a Phillips screwdriver. The card will lift itself after you remove the 4mm screw.
- Gently pull out the WLAN card.

## Step 31



- Insert the pointy side of the spudger below the golden color connector of the gray cable on the WWAN card and lift to detach
- Insert the pointy side of the spudger below the golden color connector of the black cable on the WWAN card and lift to detach

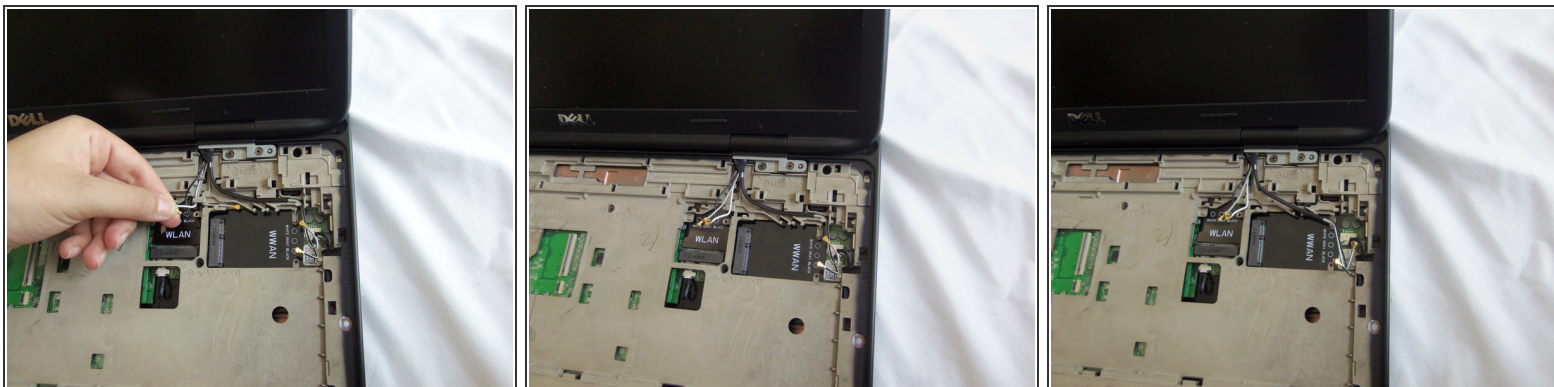
## Step 32



- Unscrew the 4mm screw from the WWAN card with a Phillips screwdriver. The card will lift itself after you do so
- Gently pull out the WWAN card



## Step 33



- Gently remove the wires for WLAN and WWAN cards from their housing.

## Step 34



- Unscrew four 8mm screws directly under the keyboard with a Phillips screwdriver.

## Step 35



- Loosen the grounding screw attached to the black monitor cable with a Phillips screwdriver.

⚠ DO NOT ATTEMPT TO REMOVE SCREW FROM WIRE it is permanently fixed onto the wire.

## Step 36



- Using the plastic opening tool, detach the connection from the cable to the board.



## Step 37



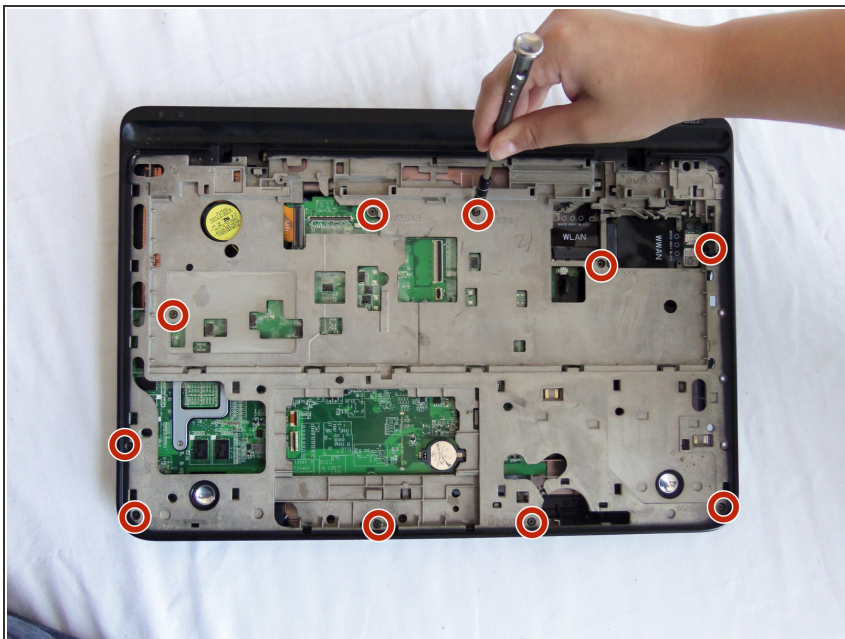
- Gently remove the monitor cable from its holdings from the board.

## Step 38



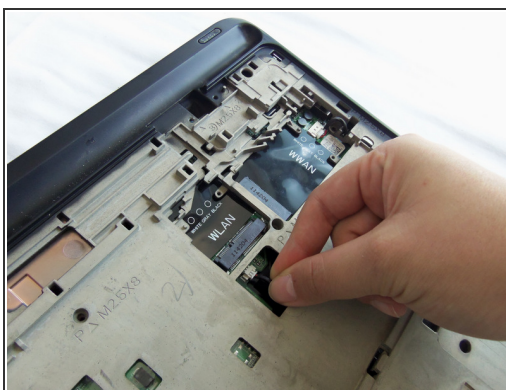
- Hold the plastic edge of the display firmly and lift to remove the display.

## Step 39 — Mother Board



- Unscrew ten 8mm screws from the grey inner casing with a Phillips screwdriver.

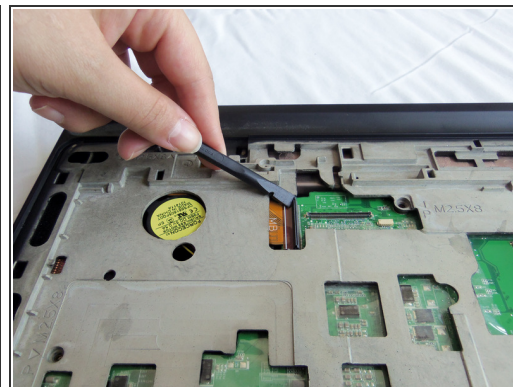
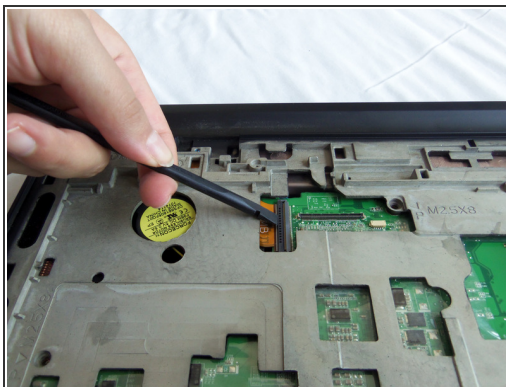
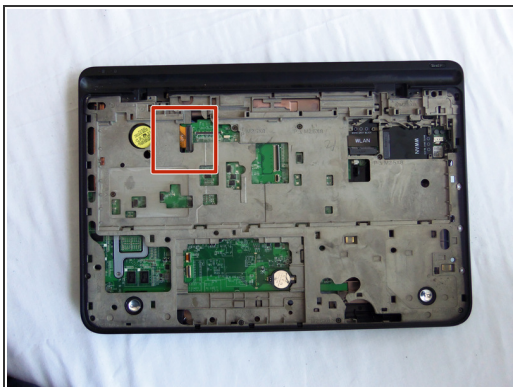
## Step 40



- Locate the sound card cable.
- Gently unplug the sound cable.



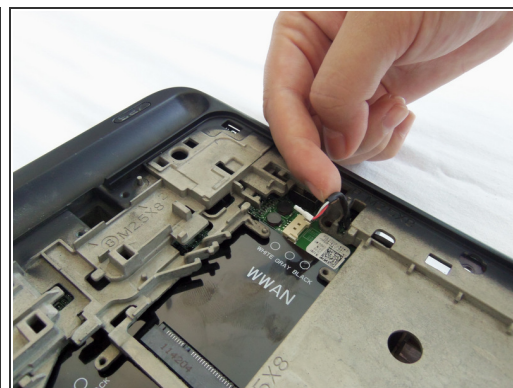
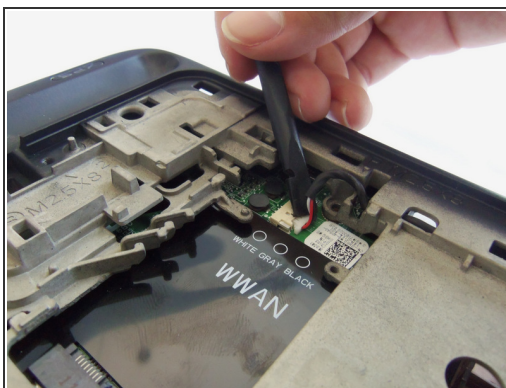
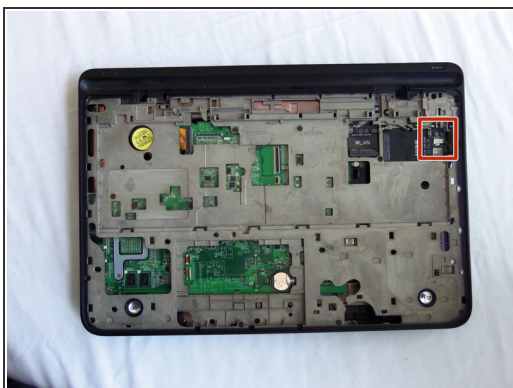
## Step 41



- Find the orange cable with the letters MB.
- Insert the spudger below the edge of the black tab and lift the black tab.

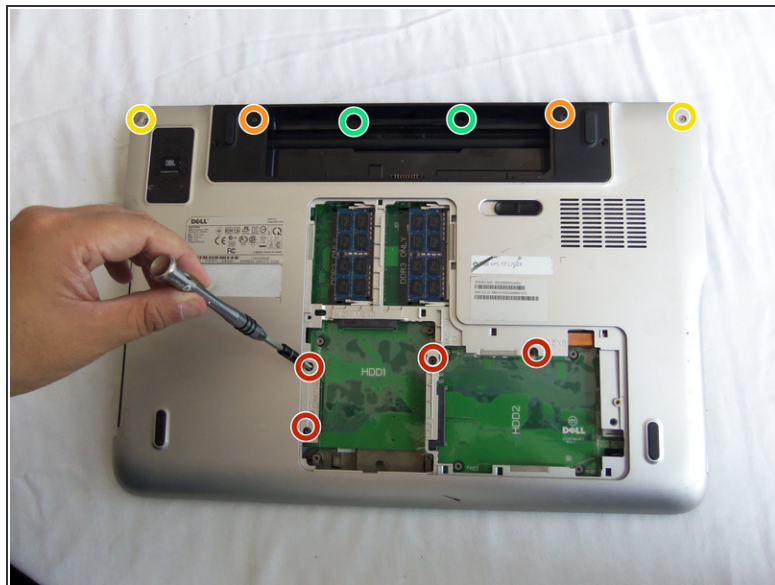
⚠ DO NOT attempt to pull out the cable on this step.

## Step 42



- Locate the wire on the side of WWAN slot.
- Using the spudger, gently pull out the cable.

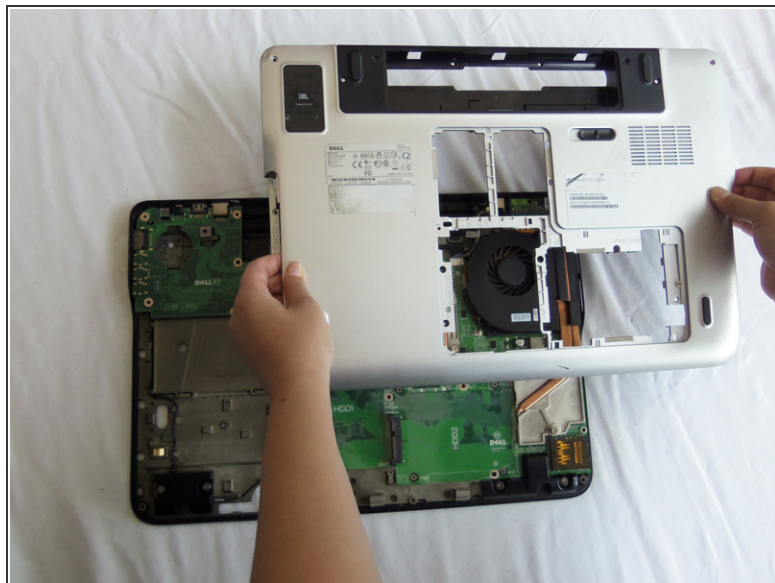
## Step 43



- Gently flip the laptop with its bottom facing you.
- Remove four 8mm screws with a Phillips screwdriver.
- Remove two 16mm battery casing screws with a Phillips screwdriver.
- Remove two 16mm corner screws with a Phillips screwdriver.
- Remove two 4mm screws inside battery housing with a Phillips screwdriver.
- ⓘ Removing the RAM is optional. Follow a separate guide to remove RAM if you feel the need.

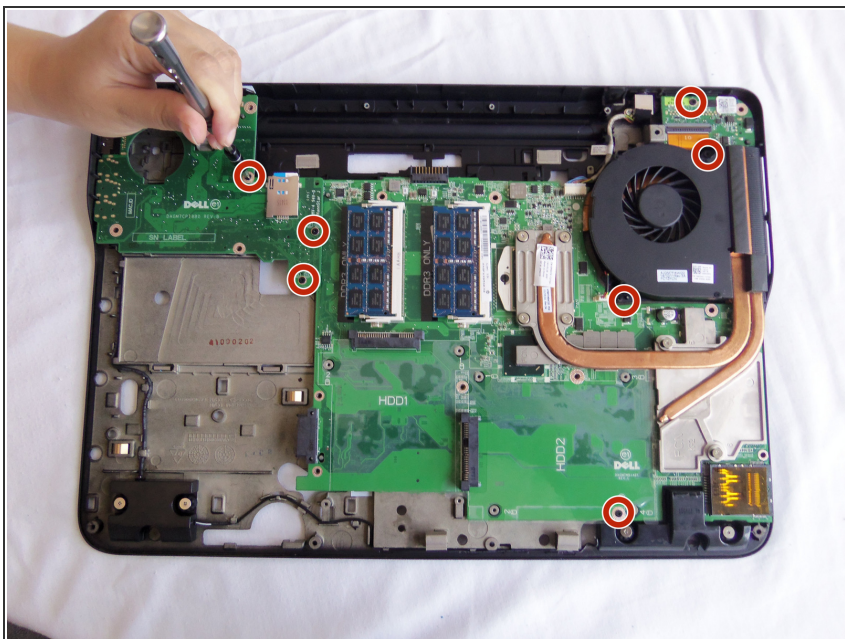


## Step 44



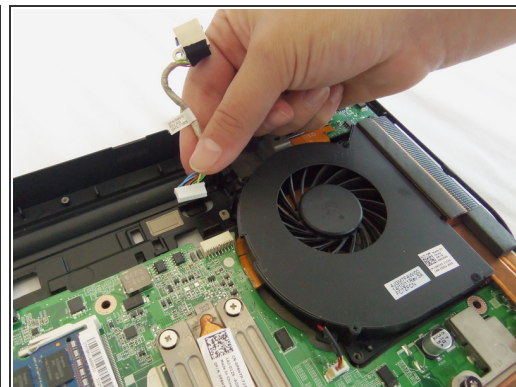
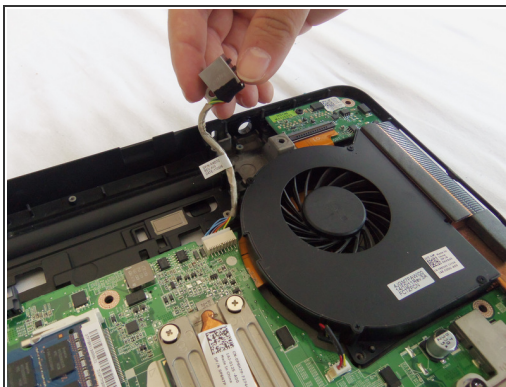
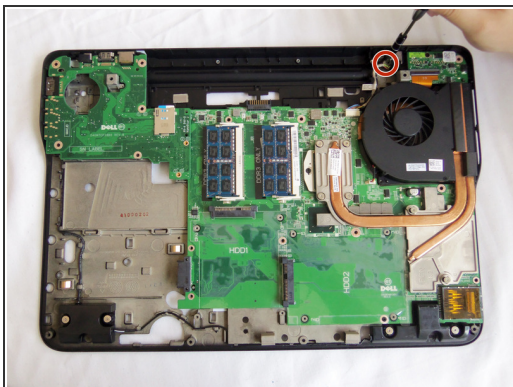
- Holding the opening from the optical drive in one hand and the other hand on the opposite side of the laptop, lift and remove the back cover assembly.

## Step 45



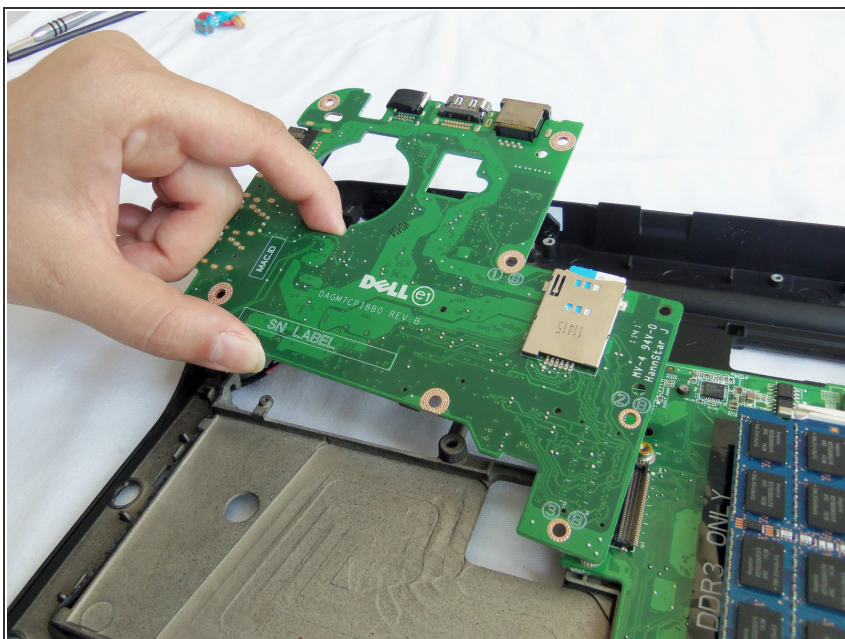
- Unscrew seven 4mm screws with a Phillips screwdriver.

## Step 46



- Unscrew one 6mm screw from the DC cable assembly with a Phillips screwdriver.
- Lift the DC cable assembly out of the casing.
- Gently unplug the DC cable.

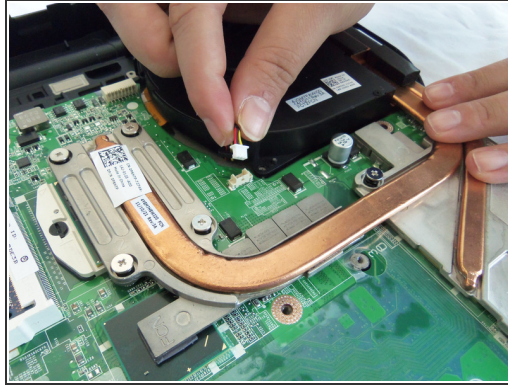
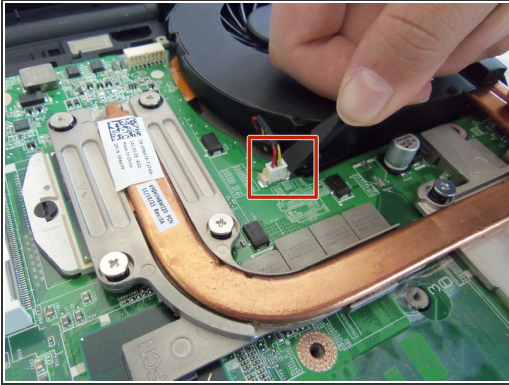
## Step 47



- Lift and remove the Wi-Fi Circuit board.

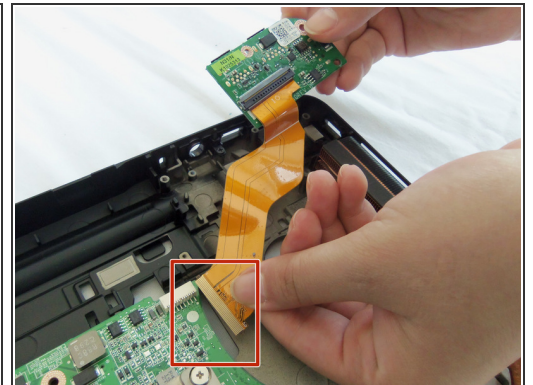
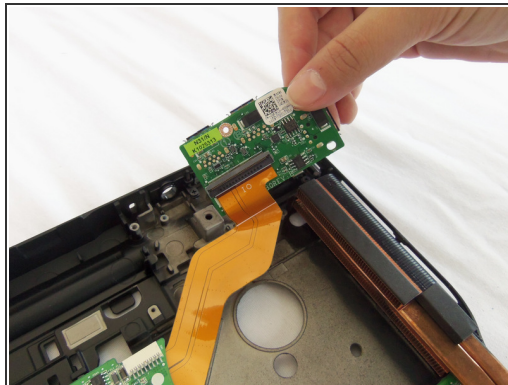


## Step 48



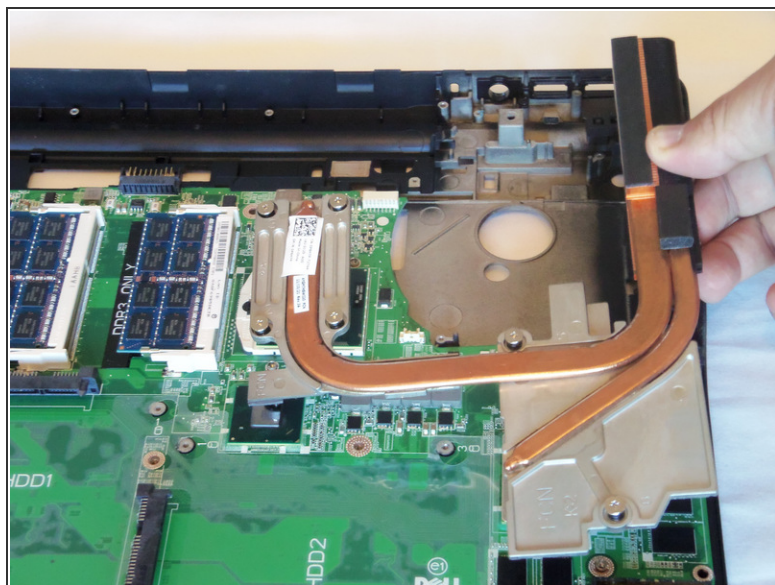
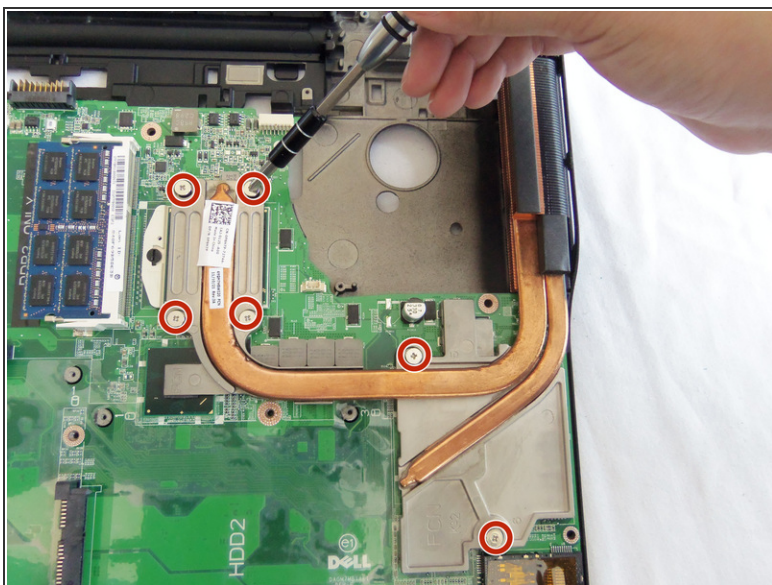
- Use a spudger to pry the fan power cable.
- Lift and remove the fan.

## Step 49



- Lift and remove the USB circuit board out of its housing.
- Remove the orange cable from the motherboard by gently pulling

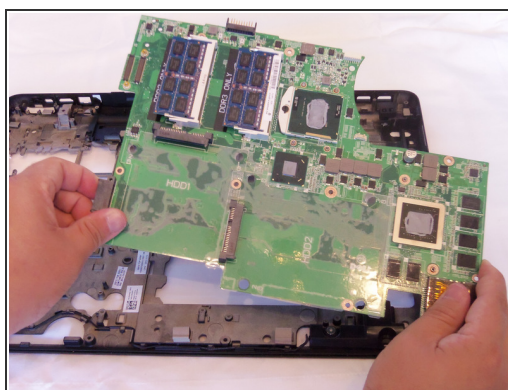
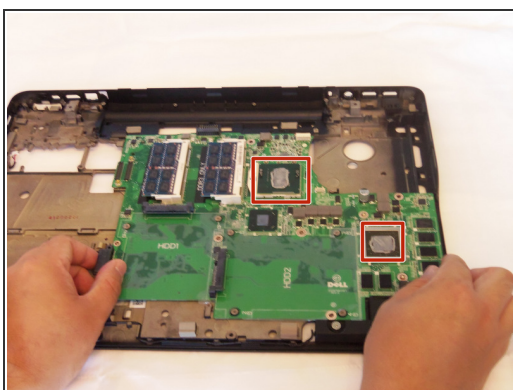
## Step 50



- Loosen the six flat head screws with a Phillips screwdriver.

⚠ The flat head screws are attached to the heat sink piece. Do not attempt to remove

## Step 51



- Gently lift and the motherboard.

⚠ DO NOT TOUCH the coolant in the red squares

To reassemble your device, follow these instructions in reverse order.